

COURSE QUIZ

UNDERSTANDING CLIMATE CHANGE

Videos Included in this Quiz*The Basics: The Science of Climate Change**The Impacts: How Climate Change Affects Africa**The Solutions: Taking Action to Reduce Climate Change*

The annual rainy and dry seasons in a region are typically attributed to what phenomenon?

- ☐ Climate change
- ☐ Emissions
- ☐ Weather
- ☐ Pollutants
- ☐ All of the above
- ☐ None of the above

Decreases in rainfall and increases in temperatures leading to drought that continues and worsens over the course of many years is attributable to what phenomenon?

- ☐ Greenhouse gases
- ☐ Weather
- ☐ Climate change
- ☐ Aerosol sprays
- ☐ All of the above
- ☐ None of the above

Greenhouse gases refers to the many chemical compounds found in the Earth's atmosphere that absorb sunlight and trap its heat. Greenhouse gas emissions come exclusively from human-made products. True or False?

- ☐ True
- ☐ False

Human activity over the last 100 years has added billions of tons of heat-trapping greenhouse gases to the atmosphere. Which of these activities or products that contributes to climate change is *not* caused by humans releasing unnatural amounts of greenhouse gases into the atmosphere?

- ☐ Burning coal, oil, or gas
- ☐ Paint fumes
- ☐ Hair sprays
- ☐ Solar flares
- ☐ All of the above
- ☐ None of the above

Burning trees and fossil fuels releases carbon dioxide stored for millions of years into the atmosphere, contributing to an increase in greenhouse gas emissions and the warming of the planet. True or False?

- ☐ True
- ☐ False

An estimated ____% of Africa's agriculture is dependent primarily on _____.

- ☐ 33%; farming
- ☐ 100%; pesticides
- ☐ 50%; soil
- ☐ 95%; rainfall

Climate change can only result in decreased rainfall and drought. True or False?

- ☐ True
- ☐ False

Increased warming and rainfall due to the impact of climate change in Africa has led to increases in the spread of diseases such as:

- ☐ Malaria
- ☐ Dengue Fever
- ☐ Yellow Fever
- ☐ All of the above
- ☐ None of the above

Poor air quality associated with heat waves or the burning of fossil fuels can lead to breathing problems and respiratory illnesses. People most vulnerable to the impact of poor air quality are the urban poor, older adults, young children, traditional societies, and subsistence farmers. True or False?

- ☐ True
- ☐ False

Renewable energy is considered "clean" energy because it does not release carbon dioxide into the atmosphere. Which of these sources of energy is *not* considered renewable?

- ☐ Wind
- ☐ Solar
- ☐ Hydro (Water)
- ☐ Coal
- ☐ All of the above
- ☐ None of the above

Using sunlight to generate a chemical reaction in cells made of silicon or other materials, resulting in the release of electricity is referred to as a _____ effect. These _____ cells can be packaged together to make solar panels to power homes and businesses.

- ☐ Carbon
- ☐ Photovoltaic
- ☐ Hydroelectric
- ☐ Photosynthetic
- ☐ Nuclear

Solar-thermal technology concentrates the sun's rays with mirrors to heat liquid and create steam. This steam can be used to power generators and create electricity. True or False?

- ☐ True
- ☐ False

The fastest-growing energy source in the world since 1990 is:

- ☐ Solar
- ☐ Gasoline
- ☐ Wind
- ☐ Hydro (Water)
- ☐ Firewood
- ☐ All of the above
- ☐ None of the above

Heat built up inside the earth is called _____ energy. At _____ power plants, wells are drilled one to three kilometers into the Earth to pump steam or hot water to the surface to make energy.

- ☐ Hydroelectric
- ☐ Geothermal
- ☐ Photovoltaic
- ☐ Turbine
- ☐ Solar

Deforestation and forest degradation contribute to climate change because carbon stored in trees and soil is released into the atmosphere as carbon monoxide and other dangerous greenhouse gases.

- ☐ True
- ☐ False